A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): David J. Roach, Robert T. Loder, Jr., Thomas M. Armstrong,

Dennis W. Harris, Stevan B. Jovanovich, Richard F. Johnston

WARNING: Patent must be applied for in the name(s) of all of the actual inventor(s). 37 CFR 1.41(a) and 1.53(b).

For (title):

APPARATUS AND METHOD FOR FILLING AND CLEANING CHANNELS AND INLET PORTS IN MICROCHIPS USED FOR BIOLOGICAL ANALYSIS

CERTIFICATION UNDER 37 C.F.R. 1.10* (Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date December 13, 2000, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number FIt.697660420US, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Sallv Azevedo

(type or print name of person mailing paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

"WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(Application Transmittal [4-1]—page 1 of 9)

. Type of Application
This new application is for a(n)
(check one applicable item below)
☑ Original (nonprovisional)
☐ Design
☐ Plant
WARNING: Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application.
WARNING: Do not use this transmittal for the filing of a provisional application.
NOTE: If one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.
☐ Divisional.
☐ Continuation.
☐ Continuation-in-part (C-I-P).
2. Benefit of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121)
NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.
WARNING: When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federa holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).
The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
3. Papers Enclosed That Are Required for Filing Date under 37 C.F.R. 1.53(b) (Regular) or 37 C.F.R. 1.153 (Design) Application
48 Pages of specification
8_ Pages of claims
21 Sheets of drawing
☐ informal

WARNING: DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. Comments on proposed new 37 CFR 1.84. Notice of March 9, 1988 (1990 O.G. 57-62).

NOTE: "Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawing a minimum distance of 1.5 cm. (5/8 inch) down from the top of the page." 37 C.F.R. 1.84(c)).

(complete the following, if applicable)

u	"PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).
	ional papers enclosed
	Preliminary Amendment
_	Information District

	Information Disclosure Statement (37 C.F.R. 1.98)
	Form PTO-1449 (PTO/SB/08A and 08B)
	Citations
	Declaration of Biological Deposit
	Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.
	Authorization of Attorney(s) to Accept and Follow Instructions from Representative
П	Special Comments

☐ Special Comments

□ Other

4.

5. Declaration or oath

☐ Enclosed

Executed by

(check all applicable boxes)

inventor(s).

legal representative of inventor(s). 37 CFR 1.42 or 1.43.

joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.

This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 13 below for fee.

Not Enclosed.

WARNING: Where the filing is a completion in the U.S. of an International Application, but where a declaration is not available, or where the completion of the U.S. application contains subject matter in addition to the International Application, the application may be treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.

(Application Transmittal [4-1]—page 3 of 9)

Application is made by a person authorized under 37 C.F.R. 1.41(c) on behalf of all the above named inventor(s).
(The declaration or oath, along with the surcharge required by 37 CFR 1.16(e) can be filed subsequently).
NOTE: It is important that all the correct inventor(s) are named for filing under 37 CFR 1.41(c) and 1.53(b).
Showing that the filing is authorized. (not required unless called into question. 37 CFR 1.41(d))
6. Inventorship Statement
WARNING: If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.
The inventorship for all the claims in this application are:
☐ The same.
or
□ Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,
is submitted.
☐ will be submitted.
7. Language
NOTE: An application including a signed oath or declaration may be filed in a language other than English. A verified English translation of the non-English language application and the processing fee of \$130.00 required by 37 CFR 1.17(k) is required to be filed with the application, or within such time as may be set by the Office. 37 CFR 1.52(d).
NOTE: A non-English oath or declaration in the form provided or approved by the PTO need not be translated. 37 CFR 1.69(b).
☑ English
☐ Non-English
☐ The attached translation is a verified translation. 37 C.F.R. 1.52(d).
8. Assignment
☐ An assignment of the invention to
☐ is attached. A separate ☐ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☐ FORM PTO 1595 is also attached.
☐ will follow.
NOTE: "If an assignment is submitted with a new application, send two separate letters-one for the application and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).
WARNING: A newly executed "CERTIFICATE UNDER 37 CFR 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.

9.	Ce	rtifi	ed	Co	рy
----	----	-------	----	----	----

Certified copy(ies) of application(s)

Country	Appin. No.			Filed
Country	Appin. No.			Filed
Country	Appin. No.			Filed
from which priority is claime	d			
is (are) attached.				
will follow.				
NOTE: The foreign application f declaration, 37 CFR 1.55	forming the basis for the clain 5(a) and 1.63.	1 for p	priority must be r	eferred to in the oath or
U.S. application or Internation is itself entitled to a	ign priority for which the appliational Application from which riority from a prior foreign appliCATION TRANSMITTAL WH	h this a olicatio	application claims on, then complete	s benefit under 35 U.S.C. e item 18 on the ADDED
A. 🗵 Regular applicati	CLAIMS AS FIL	ED.		
Number filed	Number Extra		Rate 710	Basic Fee 37 C.F.R. 1.16(a) 0.00 \$ 790.0 0
Total Claims (37 CFR 1.16(c)) 40	- 20 = 20	×	18.00 \$ 22 .00	360.00
Independent Claims (37 CFR 1.16(b)) 4	_	×	80 •00 \$ -8 2.00	80.00
Multiple dependent claim(s if any (37 CFR 1.16(d))		+	\$270.00	
☐ Amendment car	ncelling extra claims is	enclo	sed.	
Amendment del	eting multiple-depender	ncies	is enclosed.	
	aims is not being paid			
NOTE: If the fees for extra clair prior to the expiration	ns are not paid on filing they m of the time period set for resj	ust be oonse	paid or the claim: by the Patent ar	s cancelled by amendmei nd Trademark Office in a

Filing Fee Calculation

s 1,150.00

В.	Ц	(\$330.00—37 CF		
		•	Filing Fee Calculation	\$
C.		Plant application (\$540.00—37 CF		\$
11.	Sma	Il Entity Stateme		
		Verified Statements 1.27 is (are) atta		small entity under 37 CFR 1.9 and
WA	RNINC	including application or patent in which under 35 U.S.C. 1 filed in the prior a statement in the p	ons or patents which are directly or the status has been established. A 19(e), 120, 121 or 365(c) of a prior a pplication if the nonprovisional app	is not affect any other application or patent, indirectly dependent upon the application nonprovisional application claiming benefit application may rely on a verified statement of the verified statement filed in the prior d desired." 37 C.F.R. § 1.28(a).
		(0	complete the following, if app	olicable)
		Status as a sma	ill entity was claimed in prior	r application
				, from which benefit
		_	for this application under:	
			119(e), 120, 121, 365(c),	
		and which stat	us as a small entity is still p	proper and desired.
		☐ A copy of	the verified statement in the	prior application is included.
		Filing Fee C	Calculation (50% of A, B or C	above)
			\$	
NC	١		date of timely payment of a full fe	nd statement and a refund request are filed e. The two-month period is not extendable
12.	Rec	uest for Internat	ional-Type Search (37 C.F.	R. 1.104(d))
			(complete, if applicable	e)
			an international-type search rexamination on the merits tal	eport for this application at the time kes place.

13. Fee Pay	ment Being Made at This Time		
□ No	et Enclosed		
	No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. 1.16 quently.)	i(e) can	be paid subse-
🖾 En	closed		
	Filing fee		\$ 1,150.00
	Recording assignment (\$40.00; 37 C.F.R. 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".)		\$
	Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. 1.47 and 1.17(h))		s
	For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. 1.52(d) and 1.17(k))		\$
C	Processing and retention fee (\$130.00; 37 C.F.R. 1.53(d) and 1.21(i))		\$
C	Fee for international-type search report (\$40.00; 37 C.F.R. 1.21(e))		\$
to co 1.53 a filing t	TR 1.21(f) establishes a fee for processing and retaining any application in the application pursuant to 37 CFR 1.53(d) and this, as wand 1.78, indicate that in order to obtain the benefit of a prior U.S fee must be paid, or the processing and retention fee of § 1.21(f) matrix under § 53(d).	ell as the S. applica ust be pa	changes to 37 CFI ition, either the basi uid, within 1 year fron
	Total fees enclosed	\$	1,150.00
	of Payment of Fees		
Ď Ct	neck in the amount of \$ 1,150.00		
\$_		, in t	he amount o
	duplicate of this transmittal is attached.		
NOTE: Fees 1.22(t	should be itemized in such a manner that it is clear for which purp b).	ose the f	iees are paid. 37 CFI

15. Au	thoriz	ation to Charge Additiona	ıl Fees
WARNII	NG: If	no fees are to be paid on filing, t	he following items should not be completed.
WARNII		ccurately count claims, especially n extra claim charges are authorized	nultiple dependent claims, to avoid unexpected high charges, d.
Ø	by		authorized to charge the following additional fees ntire pendency of this application to Account No.
	X	37 C.F.R. 1.16(a), (f) or (g	i) (filing fees)
	X	37 C.F.R. 1.16(b), (c) and	(d) (presentation of extra claims)
NOTE:	must o	only be paid or these claims cance response by the PTO in any notic ize the PTO to charge additional cla	tiple dependent claims not paid on filing or on later presentation affed by amendment prior to the expiration of the time period ce of fee deficiency (37 CFR 1.16(d)), it might be best not to aim fees, except possibly when dealing with amendments after
			ge for filing the basic filing fee and/or declaration filing date of the application)
		37 C.F.R. 1.17 (application	on processing fees)
WARNI	S:	hould be made only with the knowl	deal with extensions of time under § 1.136(a), this authorization ledge that: "Submission of the appropriate extension fee under s a request or petition for extension is filed." (Emphasis added) O.G. 27).
		37 C.F.R. 1.18 (issue fe pursuant to 37 C.F.R. 1.3	e at or before mailing of Notice of Allowance 311(b))
NOTE:	of a N		sue fee to a deposit account has been filed before the mailing rill be automatically charged to the deposit account at the time CFR 1.311(b).
NOTE:	entity fee." i the fe	status must be filed in the application the wording of 37 CFR 1.28	f any change in status resulting in loss of entitlement to sma ation prior to paying, or at the time of paying, issue (b), (a) notification of change of status must be made even ity" and (b) no notification is required if the change is to anothe
16. ln	struct	ions as to Overpayment	
8	⊠ Cr	edit Account No. 19-059	90
[⊒ R€	efund	Thomas Almed
	۰.	510	SIGNATURE OF PRACTITIONER
Reg. N	0. 24	,518	Thomas Schneck
			(type or print name of attorney)
Tel. No	. (408	3) 297–9733	B 0 B 2 2 B

P.O. Box 2-E P.O. Address

San Jose, CA 95109-0005

Customer No. 003897

X	Incor	poration by reference of added pages	(Corresponden	ce Address page	added.)
		(check the following item if the application of prior U.S. application of entering the U.S. stage as a continual complete and attach the ADDED PAINTTAL WHERE BENEFIT OF PRICE	(including an inter tion, divisional or C GES FOR NEW AP	national application -I-P application) and PLICATION TRANS-	
	X	Plus Added Pages for New Application Application(s) Claimed Number of	Transmittal Where		
		Plus Added Pages for Papers Referred			
			pages added		-
		Plus "Assignment Cover Letter Accomp	anying New Appli	cation"	
		Number of	f pages added		_
	State	ement Where No Further Pages Added			
		(if no further pages form a part of the with this page and check the follow		n end this Transmitta	l
		This transmittal ends with this page.			

Direct all correspondence to:

Thomas Schneck P.O. Box 2-E San Jose, CA 95109-0005

Tel. (408) 297-9733 Fax (408) 297-9748

Customer No. 003897

(Application Transmittal - Added Page)

Attorn	ey's Docket No	PATENT
ADDE	ED PAGES FOR APPLICATION TRANS PRIOR U.S. APPLICATION	
NOTE:	"In order for an application to claim the benefit of a pric application must name as an inventor at least one inv disclose the named inventor's invention claimed in at the manner provided by the first paragraph of 35 U.S.	ventor named in the later filed application and least one claim of the later filed application in
NOTE:	"In addition the prior application must be (1) complete date as set forth in § 1.53(b) and include the basic filing date as set forth in § 1.53(b) and have paid therein the p within the time period set forth in § 1.53(d)." 37 CFR	g fee set forth in § 1.16; or (3) entitled to a filing rocessing and retention fee set forth in § 1.21(1)
17. R	elate Back	
WARNI	ING: If an application claims the benefit of the filing dat 120, 121 or 365(c), the 20-year term of that appli- earliest U.S. application that the application makes (35 U.S.C. 154(a)(2) does not take into account, application on which priority is claimed under 3 application, applicant should review whether any by an earlier application and, if not, the applicant earlier filed application. The term of a patent is not to of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205	cation will be based upon the filing date of the reference to under 35 U.S.C. 120, 121 or 365(c). for the determination of the patent term, any 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p claim in the patent that will issue is supported should consider canceling the reference to the based on a claim-by-claim approach. See Notice
	(complete the following, if	applicable)
C	Amend the specification by inserting, befo "This application claims the benefit of th	
A. 35	U.S.C. 119(e)	
NOTE:	"Any nonprovisional application claiming the benefit of applications must contain or be amended to contain in the title a reference to each such prior provisional applicand including the provisional application number (consist 1.78(a)(4).	the first sentence of the specification following ication, identifying it as a provisional application,
("U.S. Provisional Application(s) No(s).:	
APPLIC	CATION NO(S).:	FILING DATE
	_/	
	_/	

B. 35 U.	S.C. 120, 121 and 365(c	: }			
а д О а	Any nonprovisional application of pplications or international appli mended to contain in the first se vior application, identifying it by or international application numb pplications. Cross-references to 1.1.14(b))." 37 C.F.R. § 1.78(2).	cations designating intence of the specifi application number per and international	the United Stication following of the consisting of filing date as	ates of America in ing the title a refer the series code and indicating the	nust contain or be ence to each such and serial number relationship of the
	"This application is a				
	□ continuation				
	□ continuation-in-part	<u>t</u>			
	☐ divisional				
of	copending application(s)				
X	application number 09	<u>/ 556,897</u>	_ filed on	April 20,	2000
	International Application				
		and which	n designate	ed the U.S."	
	The proper reference to a prior serial number and the filing date	• •			I phase is the U.S
	(1) Where the application being the filing can be as a continuation.		•		
	"The nonprovisional ap				
	Application(s) No(s).:	iled	, claims th	e benefit of L	J.S. Provisiona
APPLICA	ATION NO(S).:			FILING	DATE
	/			·	

NOTE: The deadline for entering the national phase in the U.S. for an international application was clarified in the Notice of April 28, 1987 (1079 O.G. 32 to 46) as follows:

"The Patent and Trademark Office considers the International application to be pending until the 22nd month from the priority date if the United States has been designated and no Demand for International Preliminary Examination has been filed prior to the expiration of the 19th month from the priority date and until the 32nd month from the priority date if a Demand for International Preliminary Examination which elected the United States of America has been filed prior to the expiration of the 19th month from the priority date, provided that a copy of the international application has been communicated to the Patent and Trademark Office within the 20 or 30 month period respectively. If a copy of the international application has not been communicated to the Patent and Trademark Office within the 20 or 30 month period respectively, the international application becomes abandoned as to the United States 20 or 30 months from the priority date respectively. These periods have been placed in the rules as paragraph (h) of § 1.494 and paragraph (f) of § 1.495. A continuing application under 35 U.S.C. 365(c) and 120 may be filed anytime during the pendency of the international application."